

PDR RID Report

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Document PDR

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Section NA

Page NA

Figure Table NA

Category Name Design-ISS

Actionee HAIS

Sub Category

Subject Extrapolation of LAN/WAN Design To Consider Release C/D Loads

Description of Problem or Suggestion:

Currently, sizing of SMC and FOS LANs consider communication loads through the AM Release, and the SDPS PDR is slated to discuss the DAAC LAN design for the TRMM Release. According to EOSD1010, the ECS is required to support instrument loads for the PM and Chemistry missions in the Release C and D time-frame. Therefore, we need to consider the Release C,D time-frame communication loads.

Originator's Recommendation

Consider the requirements of the PM and Chemistry missions and include them in the LAN design analysis. Some of the instrument loads are included in Appendix C of the ECS Level 3 F&PRS. If releases C,D communication requirements are not considered: costly hardware (e.g., cable, routers, etc.) replacement may occur in the future or network response times may deteriorate due to increased network loads. The WAN infrastructure is more easily upgradeable than the LANs, since the WAN services are provided through public communication vendors. However, the ECS contractor needs to look at the time-horizon which includes the Releases C,D communication cost estimates and perform an analysis on how we are going to phase in the services required to achieve these goals, with maximum reuse of vested resources.

GSFC Response by:

GSFC Response Date

HAIS Response by: Forman

HAIS Schedule 2/28/95

HAIS R. E. Armstrong

HAIS Response Date 3/24/95

By agreement with ESDIS, this PDR addressed only the Release A timeframe. Lookaheads to Release B timeframe were performed in the network designs in order to show how we would accommodate high speed data flows. We believe that the same evolution / migration paths are generally applicable in the Release C and D timeframes. However, networks cannot be considered in isolation for these releases, since they are built to support SDPS and CSMS systems. Furthermore, experience with the Ad Hoc Working Group on Production (AHWGP) suggests that there may be substantial changes in the understanding of processing requirements/scenarios that would drive these future networking flows.

Status Closed

Date Closed 4/12/95

Sponsor desJardins

Attachment if any
